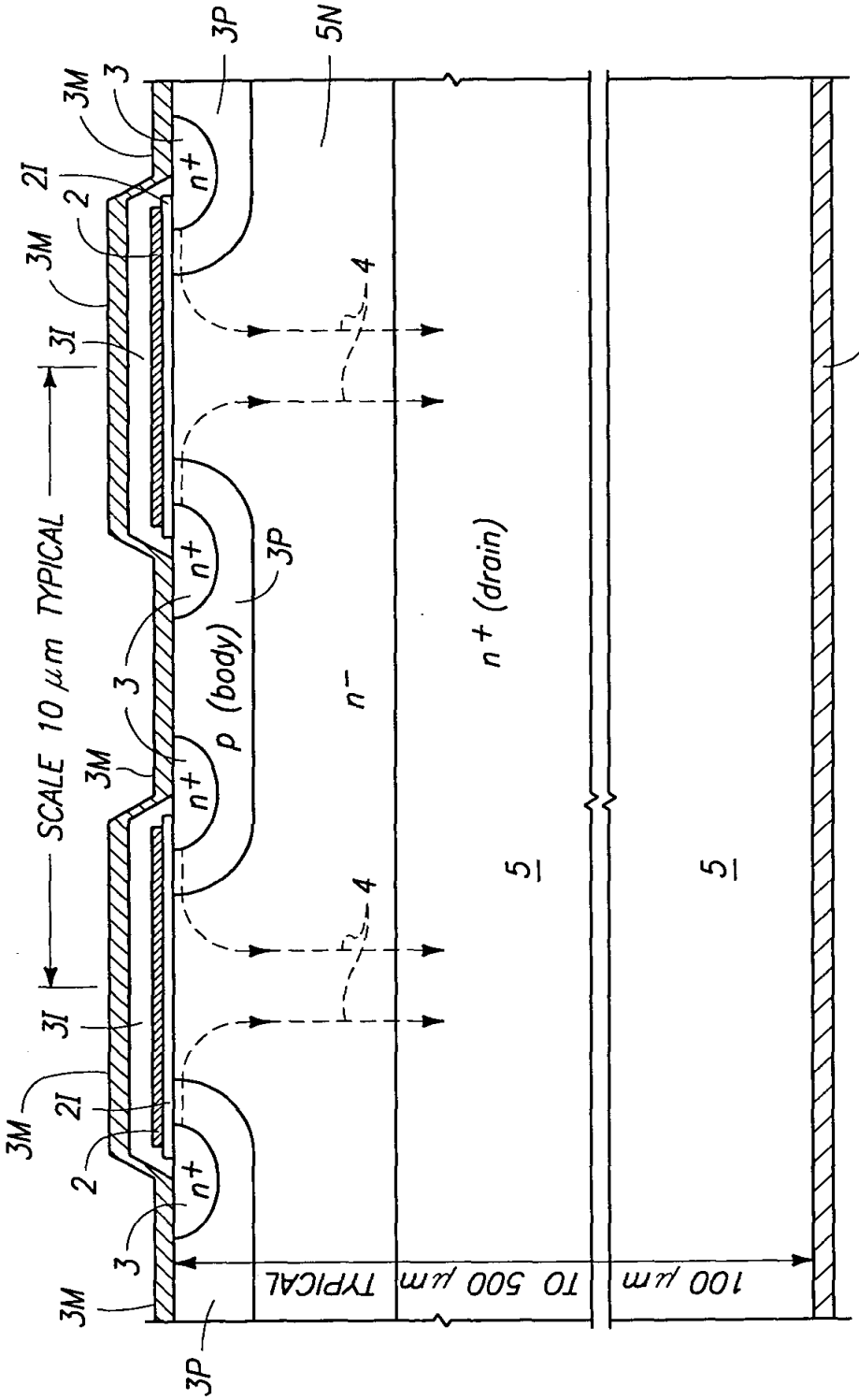


FIG 1
PRIOR ART

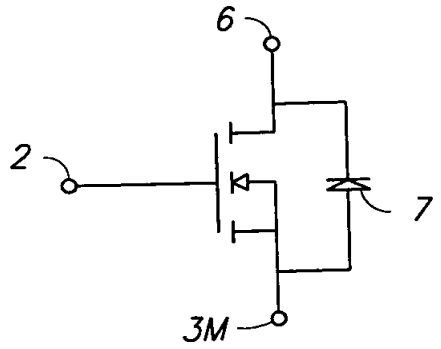


Fig 2
PRIOR ART

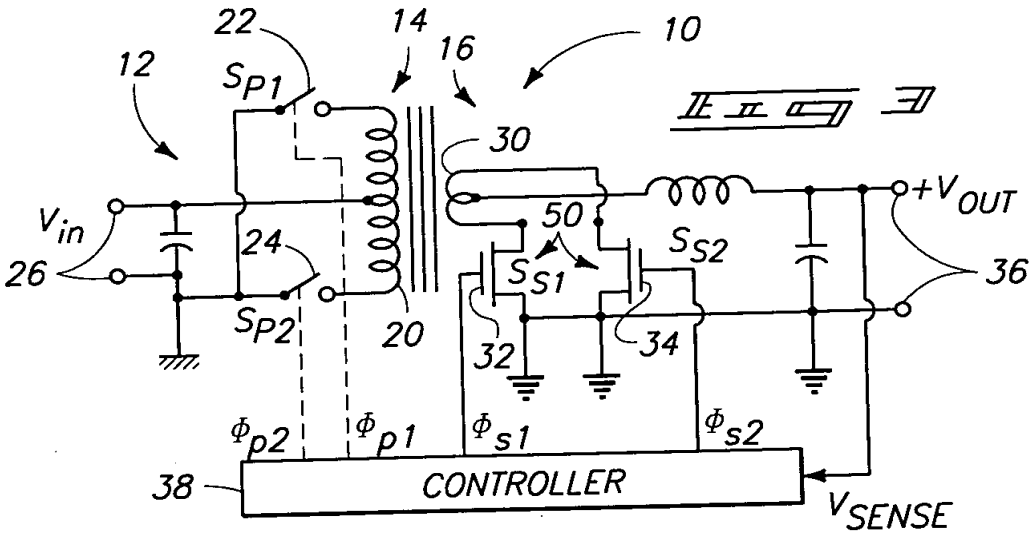


Fig 3

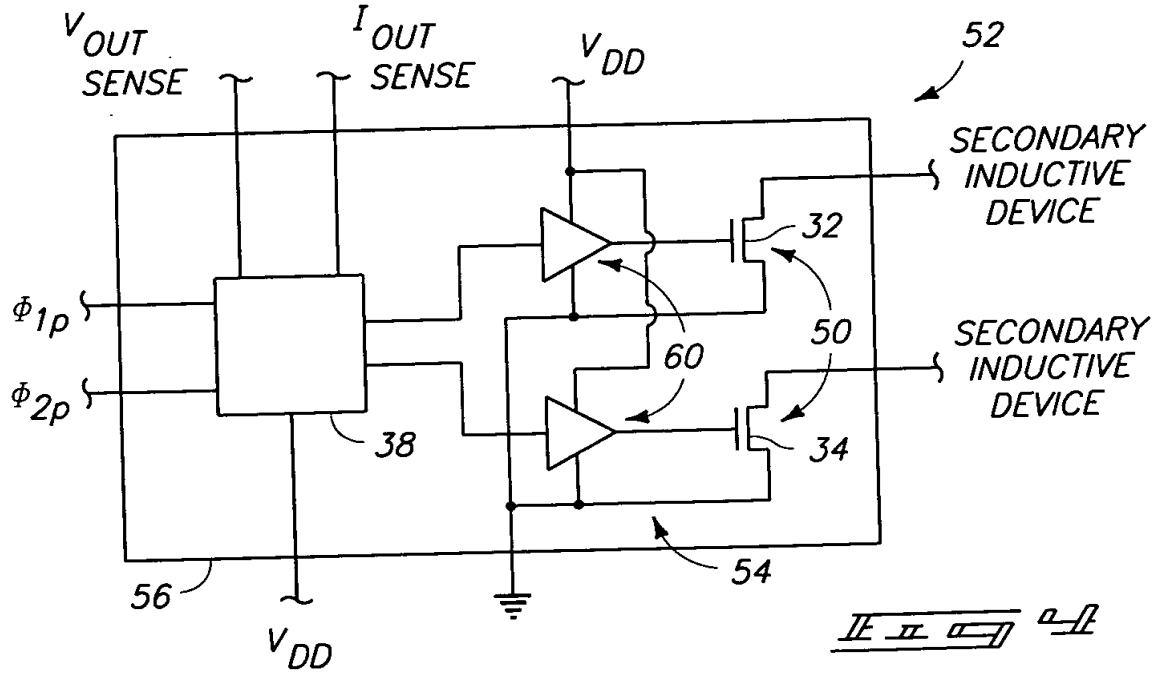


Fig 4

TOETZ0" 82SH0660

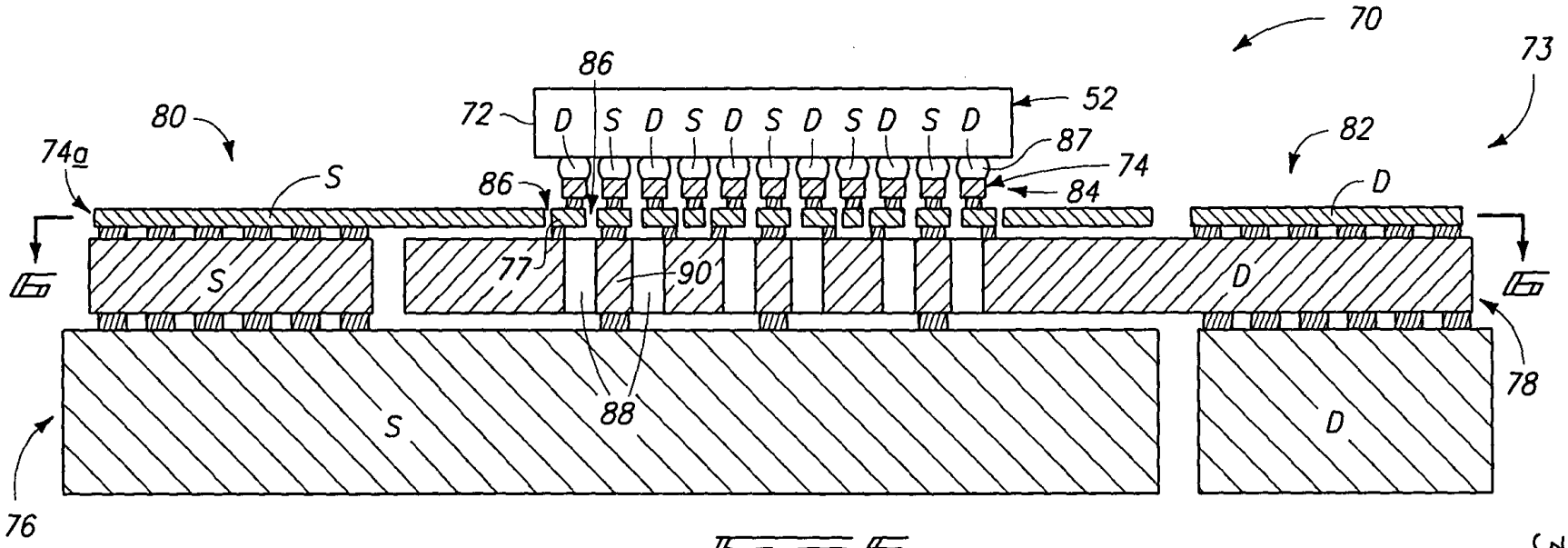
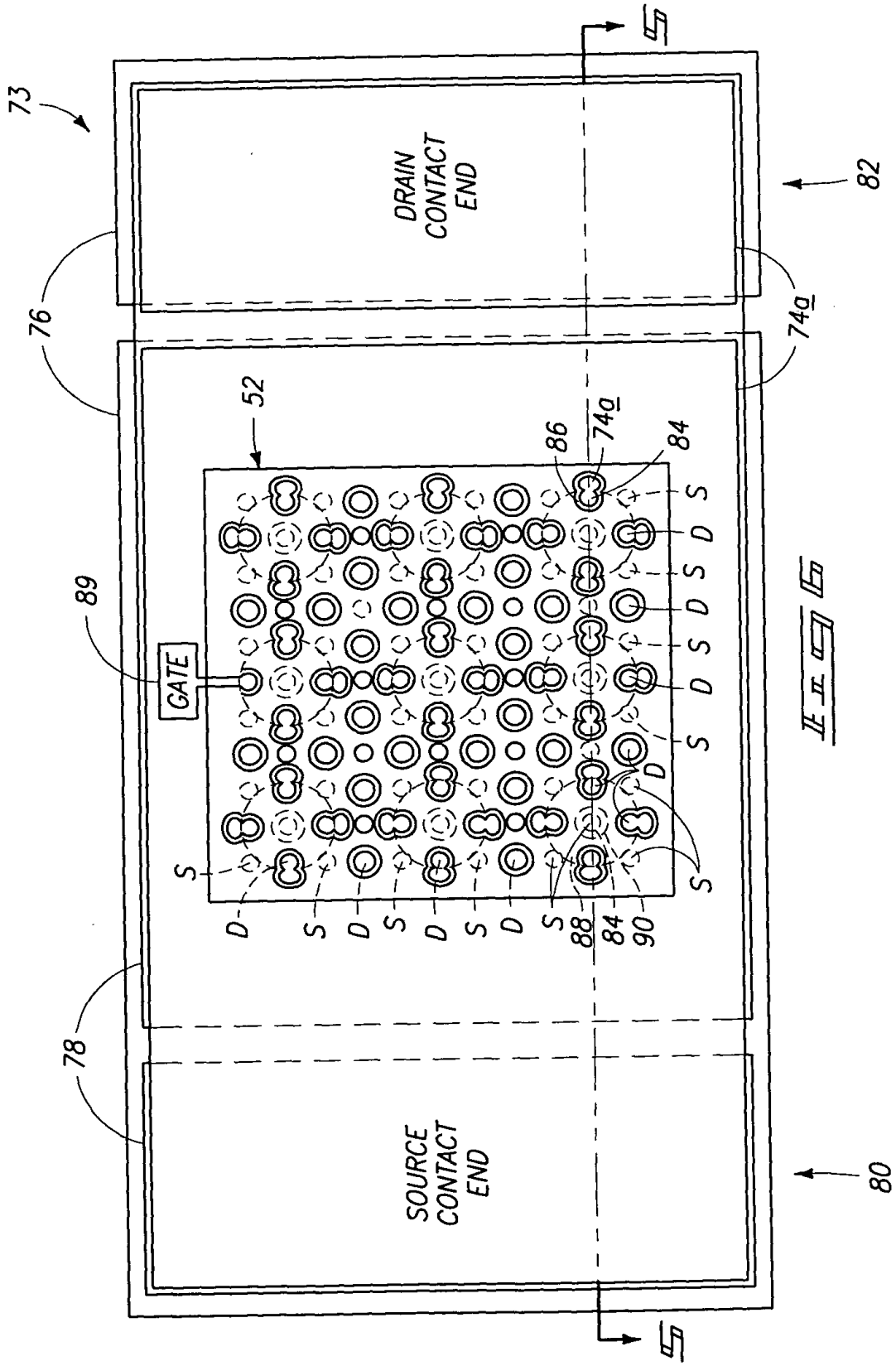


Fig 5


73
DRAIN CONTACT END
82
76
74a
52
86
74a
84
89
GATE
S D S D S D S
S D S D S D S
S D S D S D S

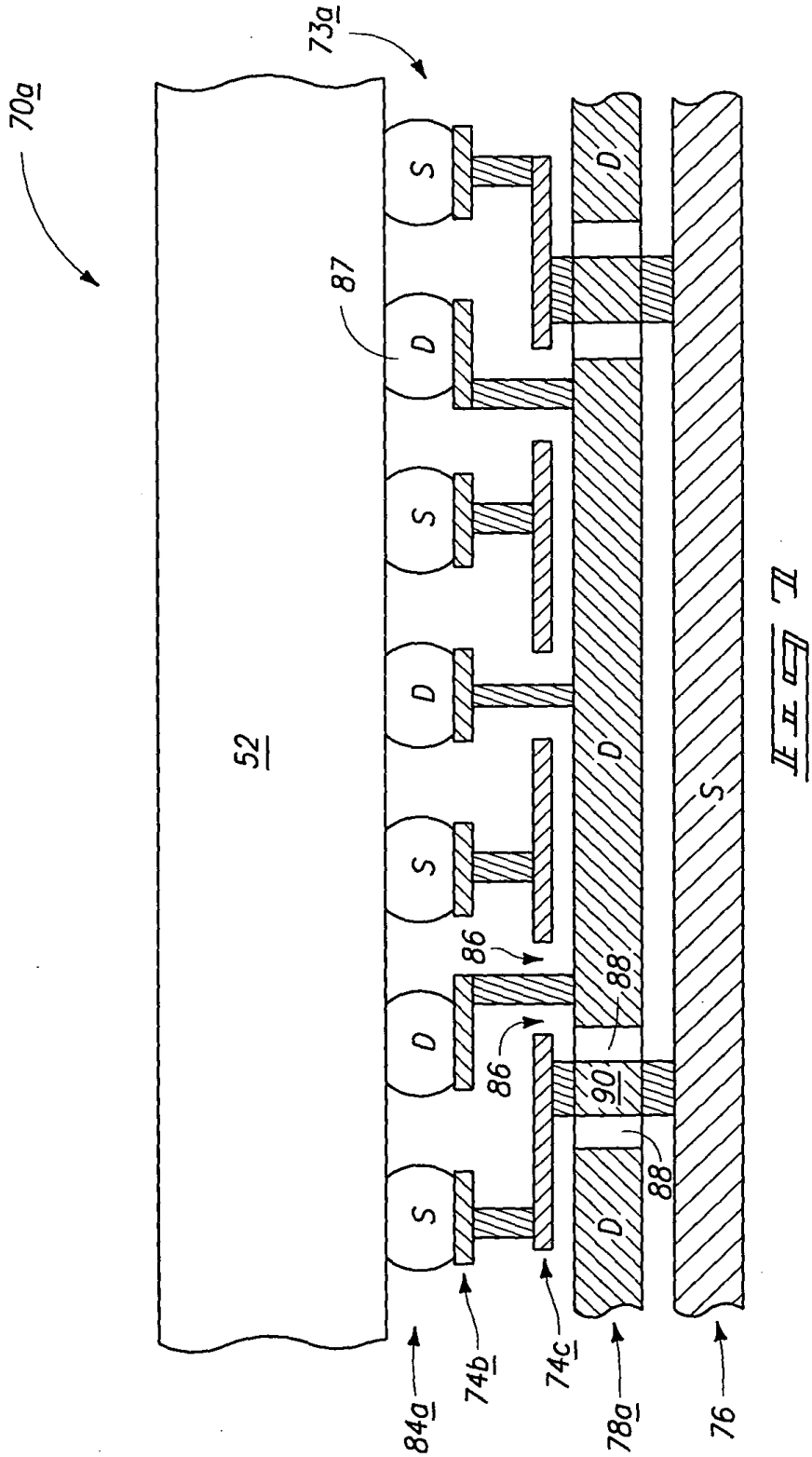


FIG. 11

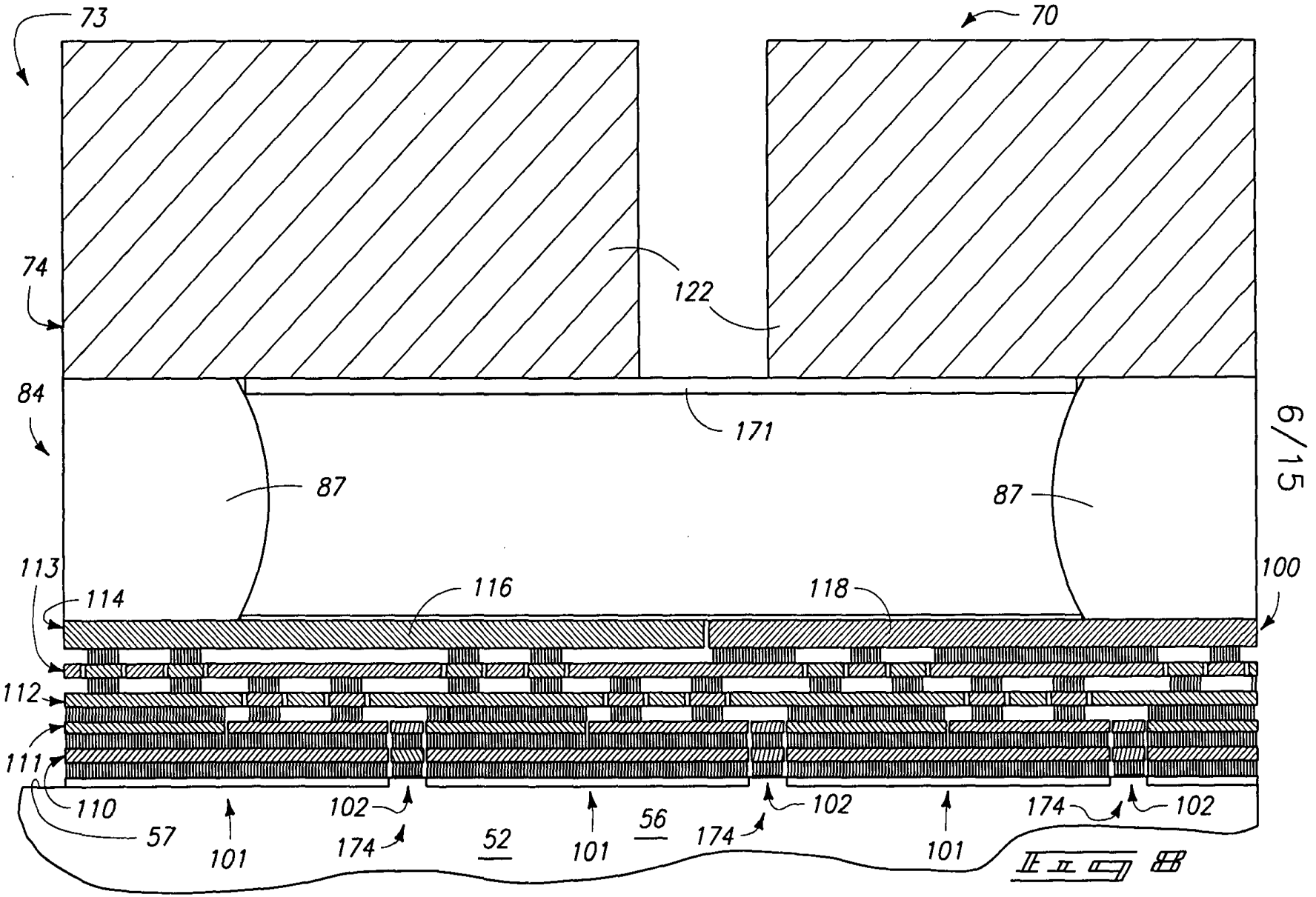

73
70
74
122
84
171
87
87
113
114
116
118
100
112
111
110
57
101
102
174
52
101
56
174
102
101
174
102

Fig 8

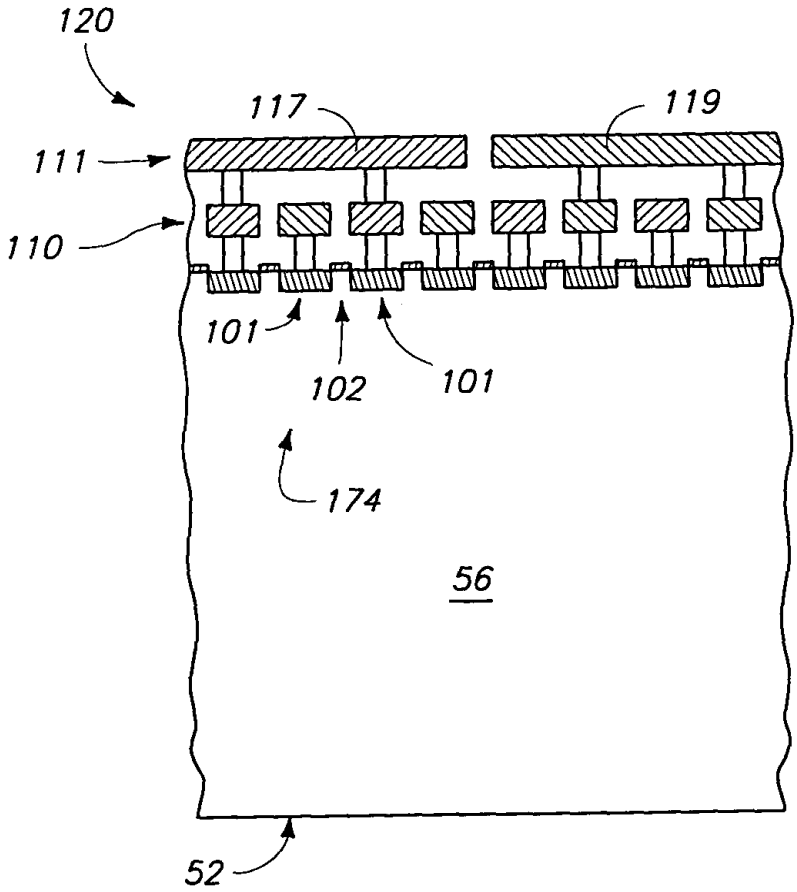


Fig 8A

T02720 "8Z9h0660

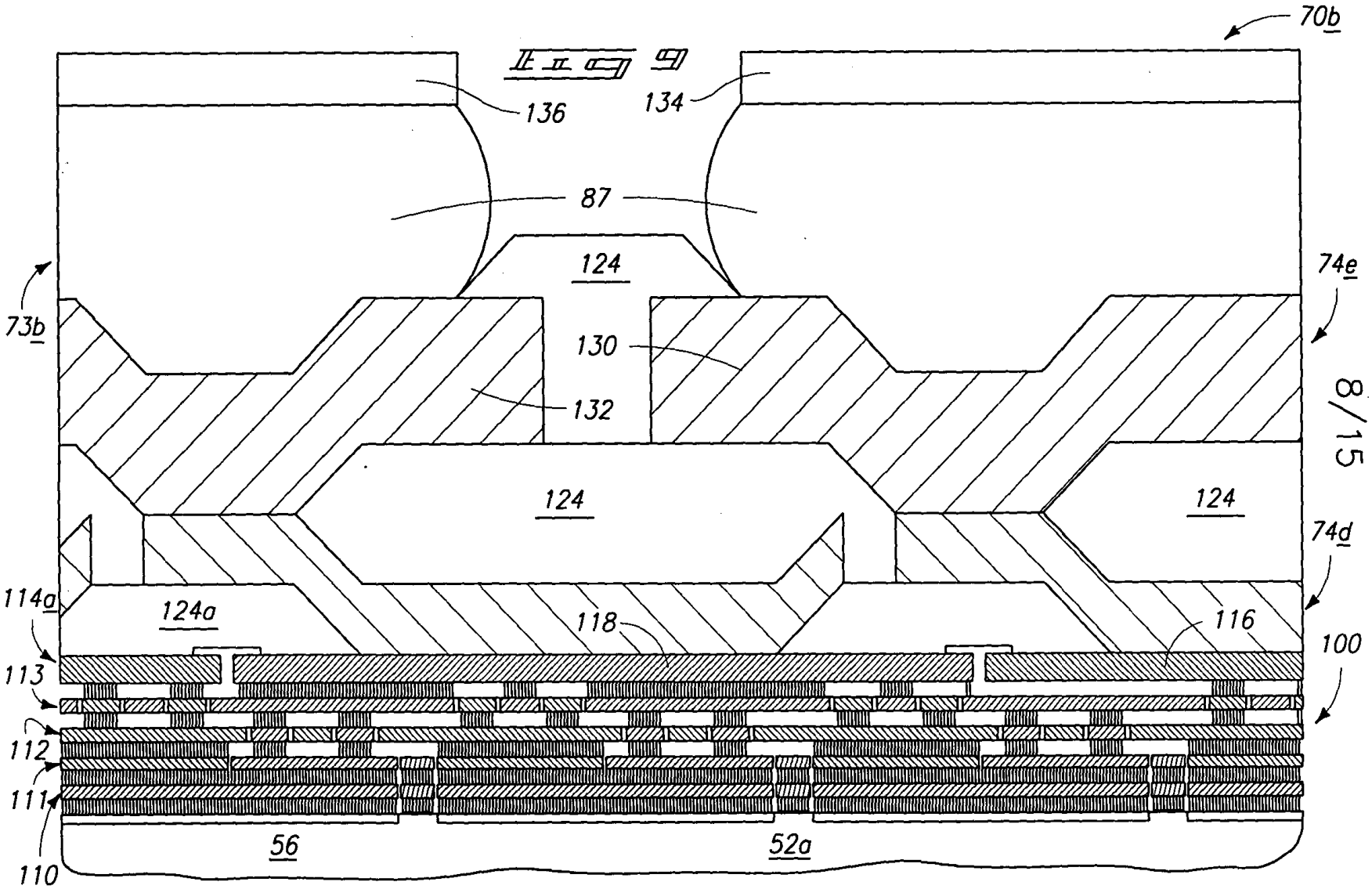


Fig 9

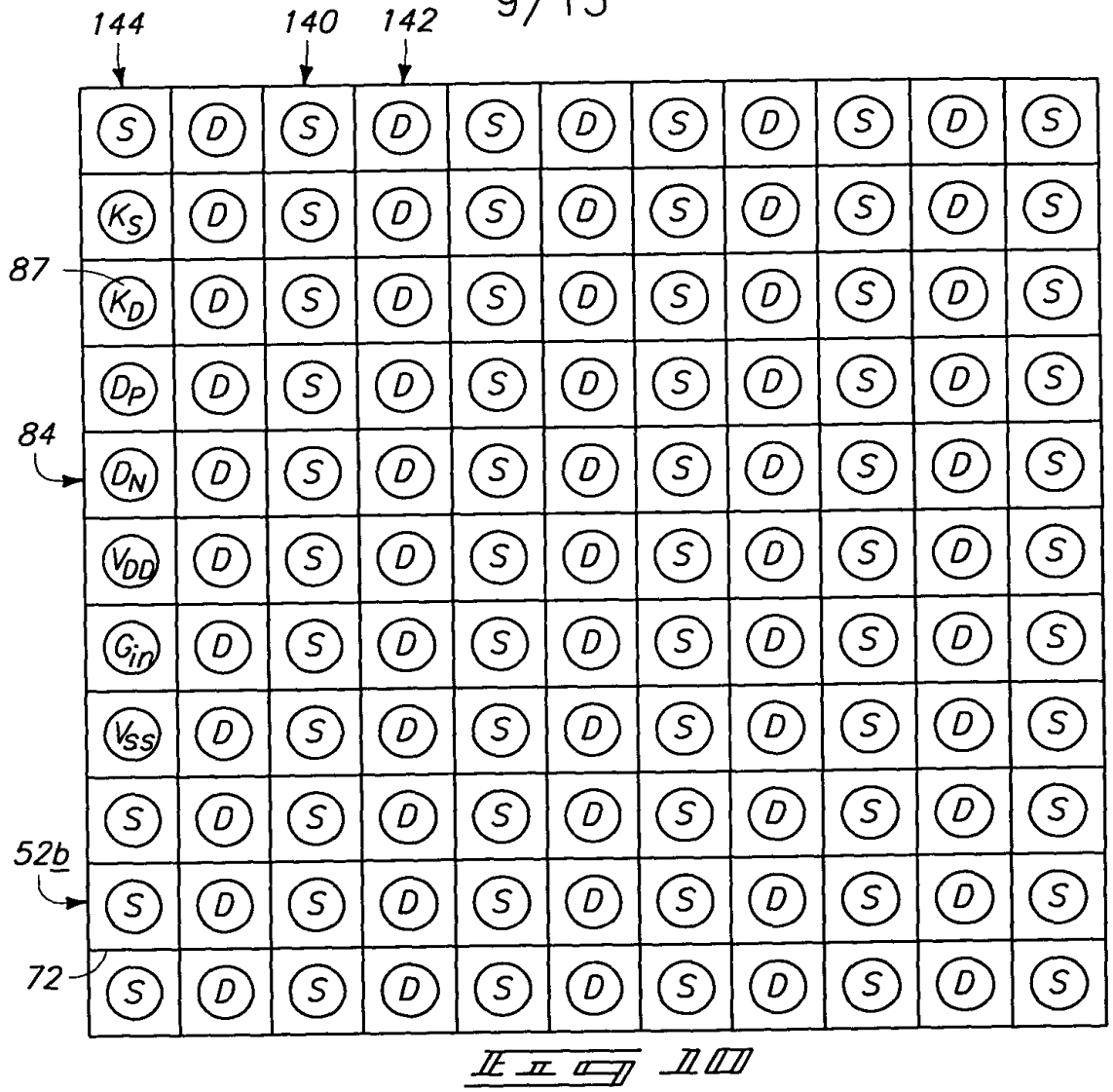


Fig III

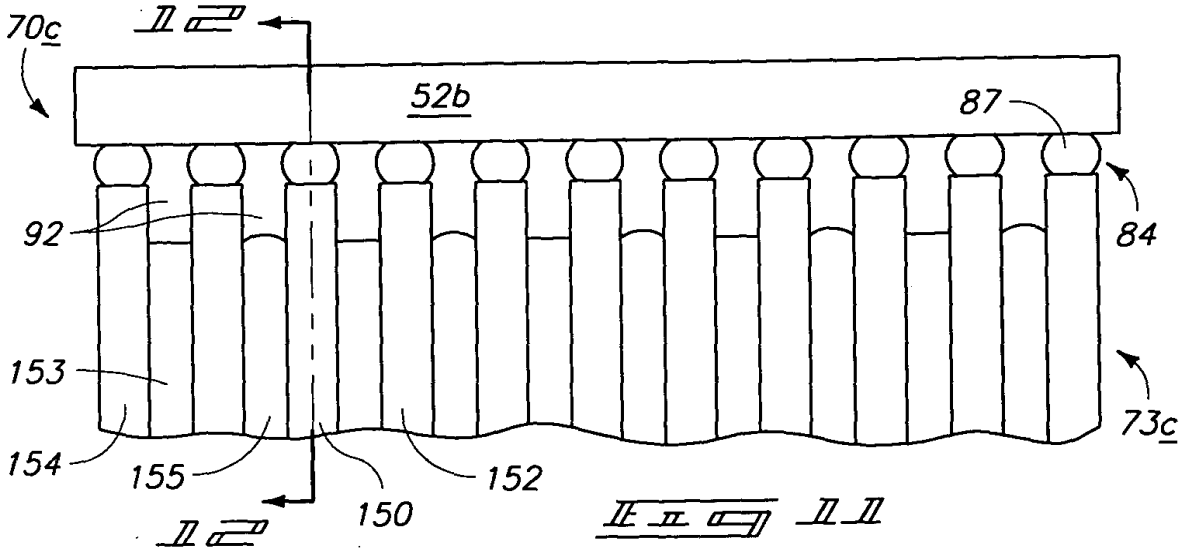


Fig II

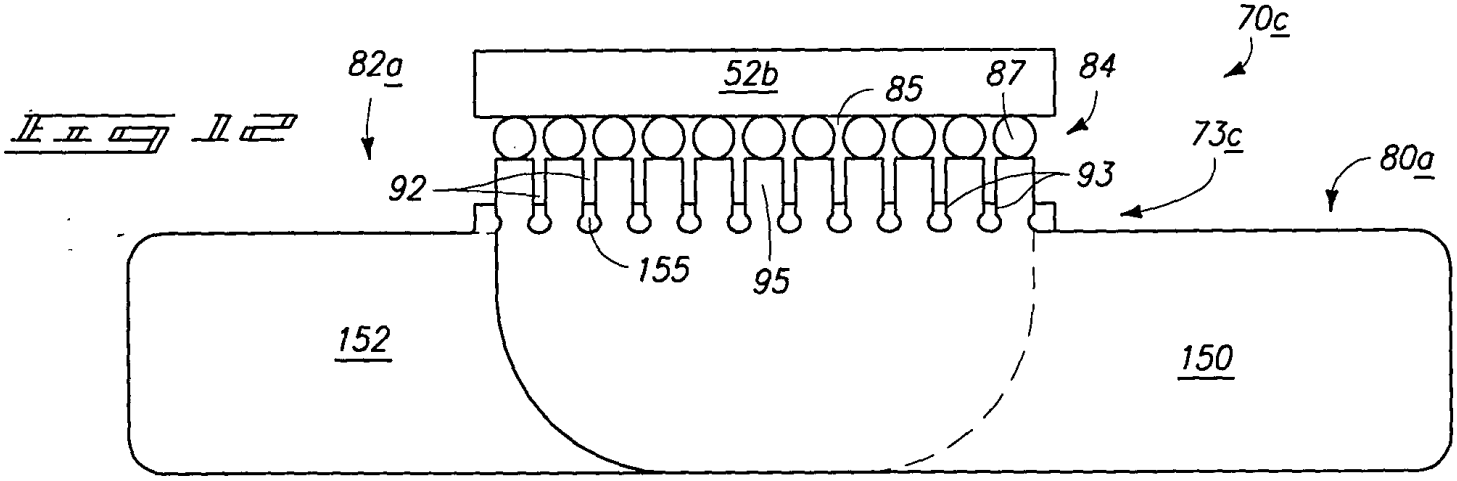

70c
82a
52b
85
87
84
73c
80a
92
93
155
95
152
150

Fig 12

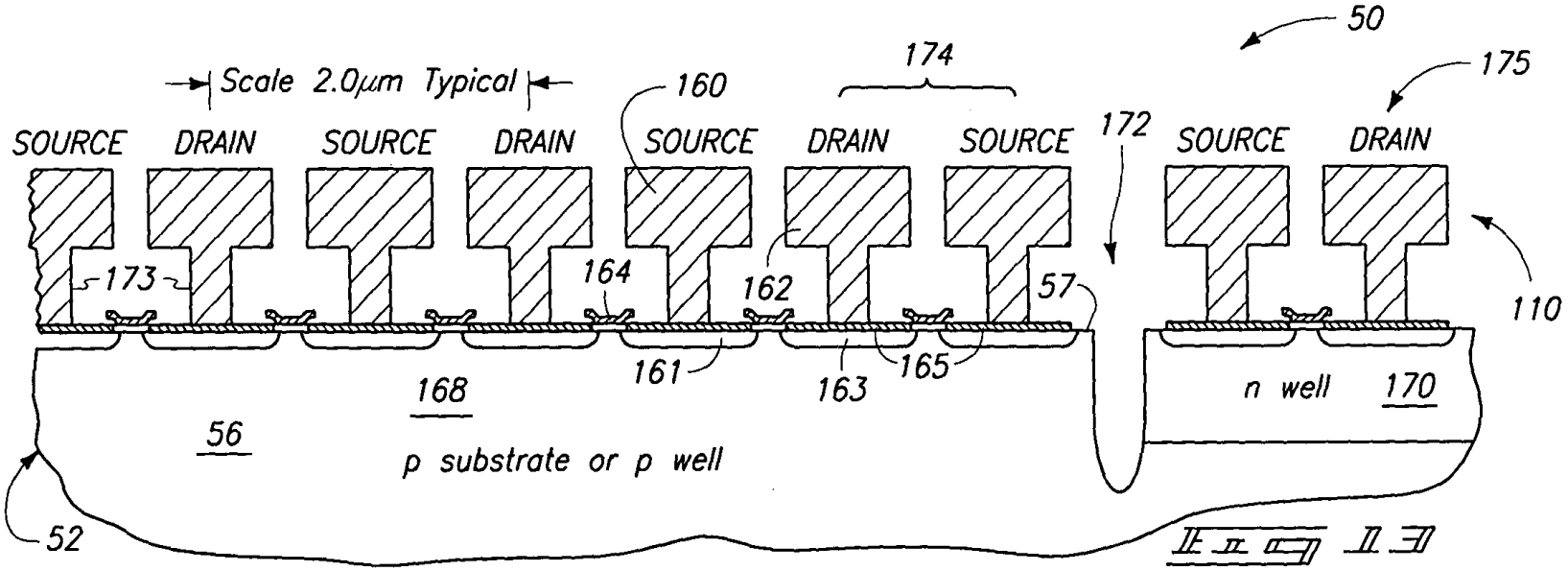
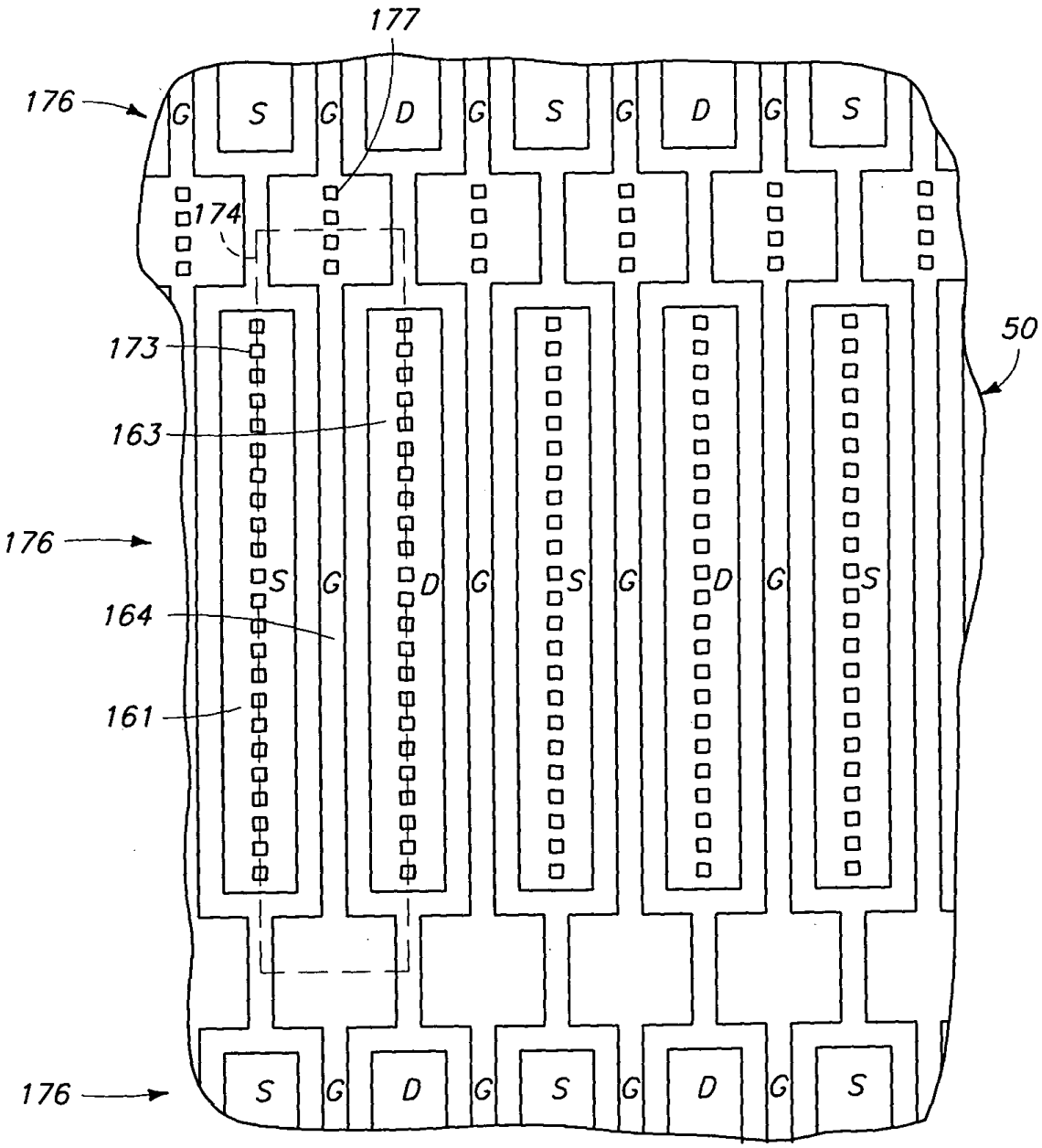

50
174
175
Scale 2.0μm Typical
160
172
SOURCE
DRAIN
SOURCE
DRAIN
SOURCE
DRAIN
SOURCE
SOURCE
DRAIN
173
164
162
57
110
161
163
165
168
n well
170
56
p substrate or p well
52

Fig 13


177
176
G
S
G
D
G
S
G
D
G
S
174
173
163
50
176
S
G
D
G
S
G
D
G
S
164
161
176
S
G
D
G
S
G
D
G
S

Фиг. 11а

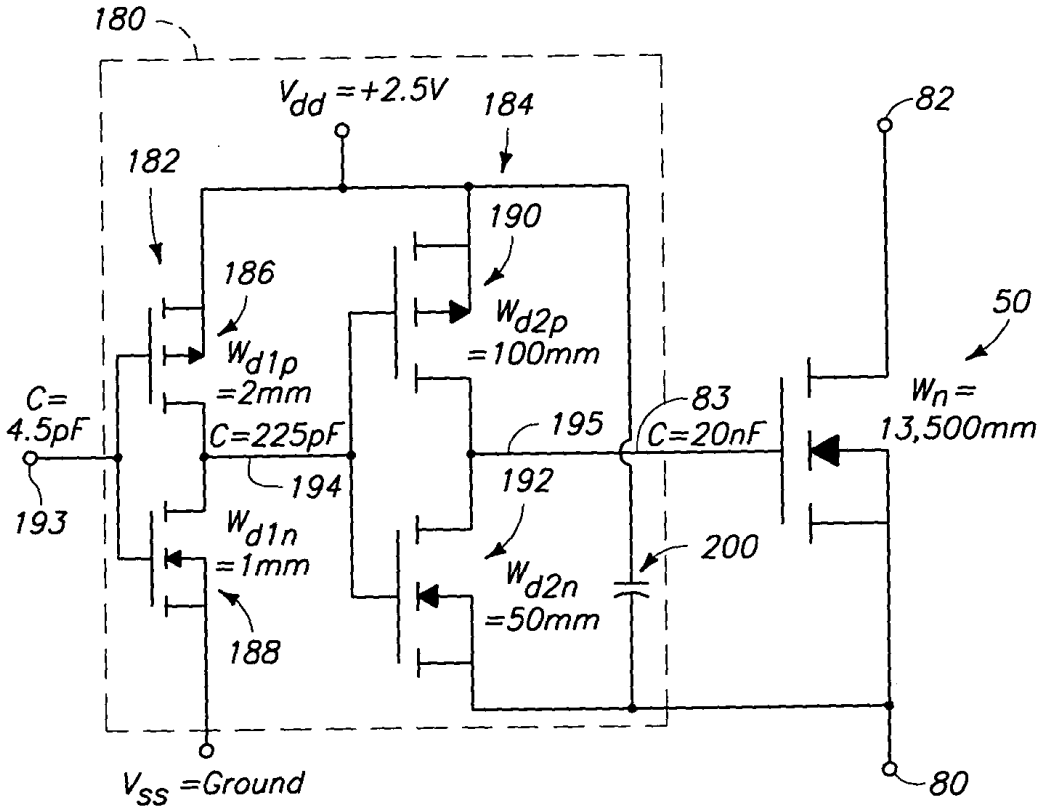


Fig 15

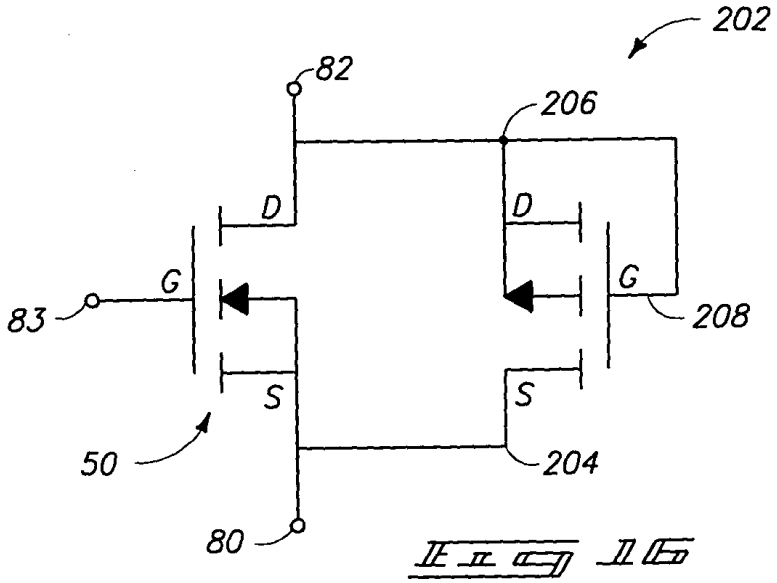


Fig 16

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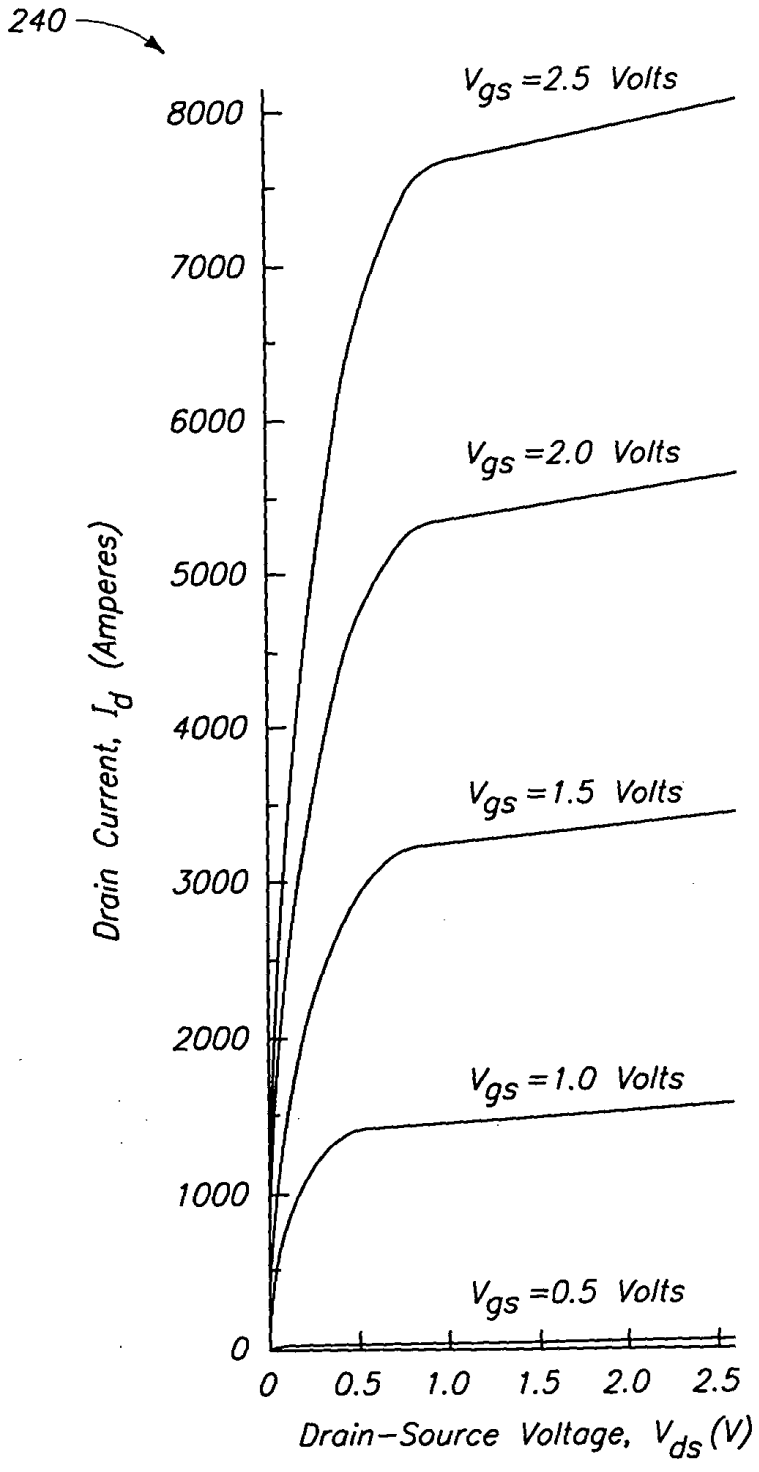
240
V_{gs} =2.5 Volts
V_{gs} =2.0 Volts
V_{gs} =1.5 Volts
V_{gs} =1.0 Volts
V_{gs} =0.5 Volts
8000
7000
6000
5000
4000
3000
2000
1000
0
Drain Current, I_d (Amperes)
0
0.5
1.0
1.5
2.0
2.5
Drain-Source Voltage, V_{ds} (V)

Fig 11

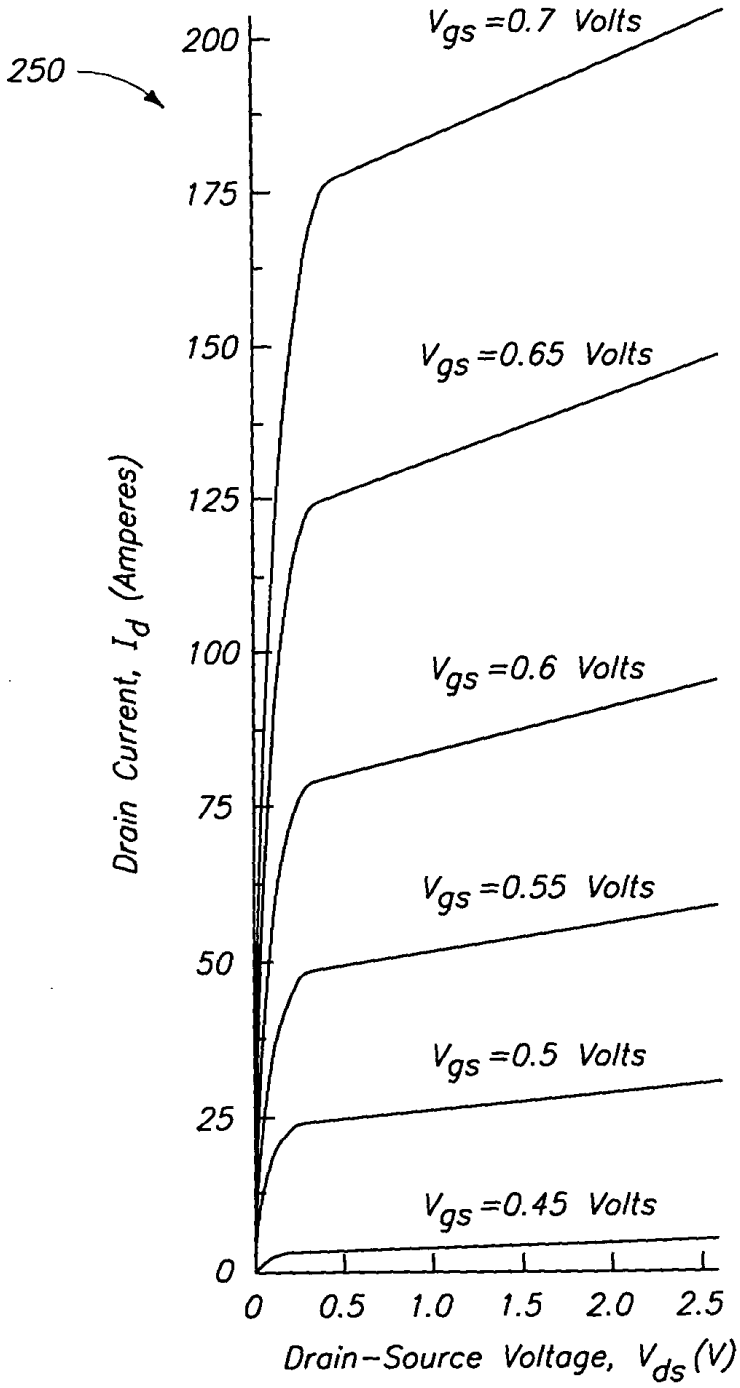
250
200
175
150
125
100
75
50
25
0
V_{gs} =0.7 Volts
V_{gs} =0.65 Volts
V_{gs} =0.6 Volts
V_{gs} =0.55 Volts
V_{gs} =0.5 Volts
V_{gs} =0.45 Volts
Drain Current, I_d (Amperes)
0
0.5
1.0
1.5
2.0
2.5
Drain-Source Voltage, V_{ds} (V)

Fig 18

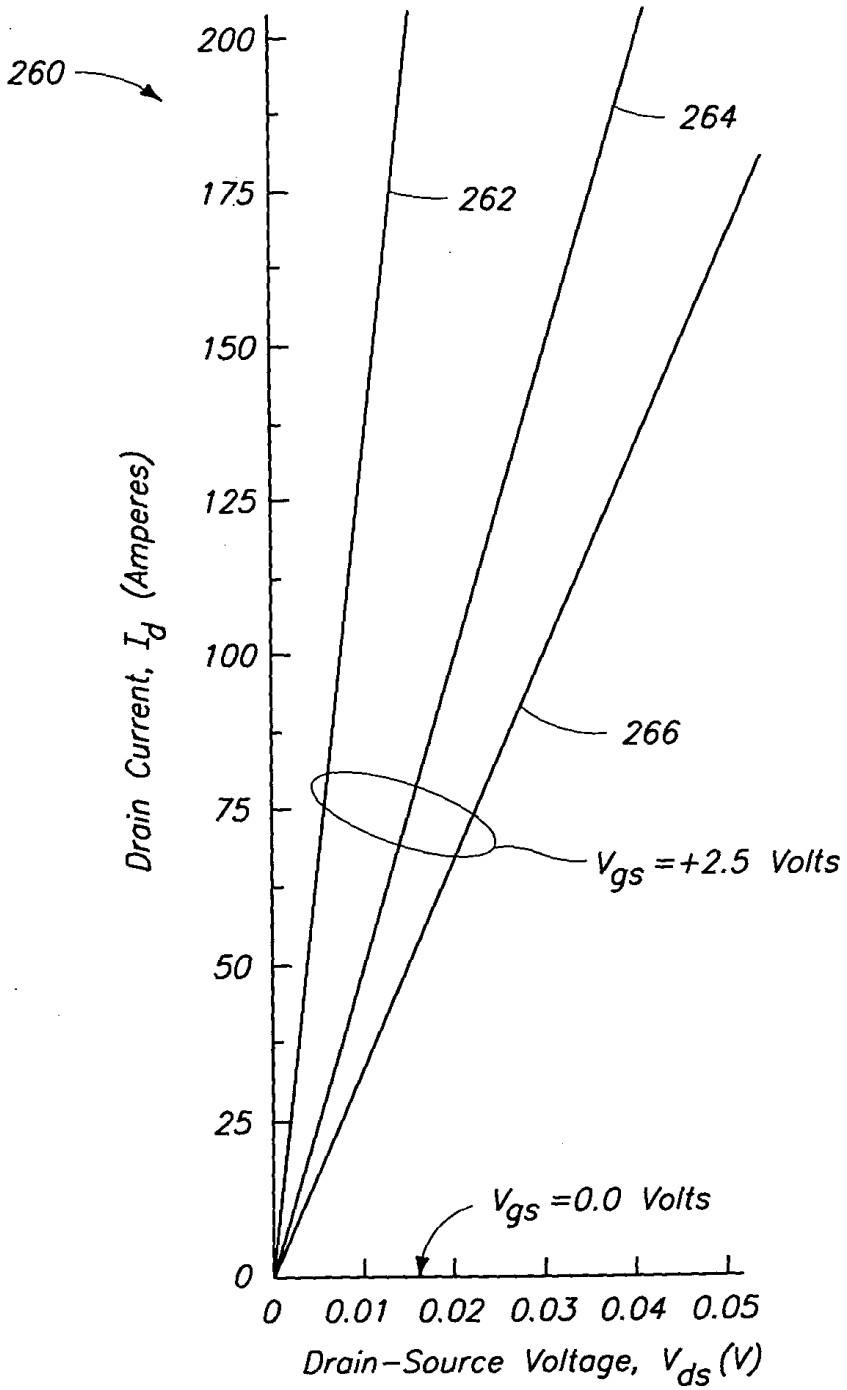

Fig 19

EP 0 727 820 A1